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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 10929 (1984): Hook Voluntary Opening Terminal Device for Artificial Limbs [MHD 10: Medical Laboratory Instruments]

“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”



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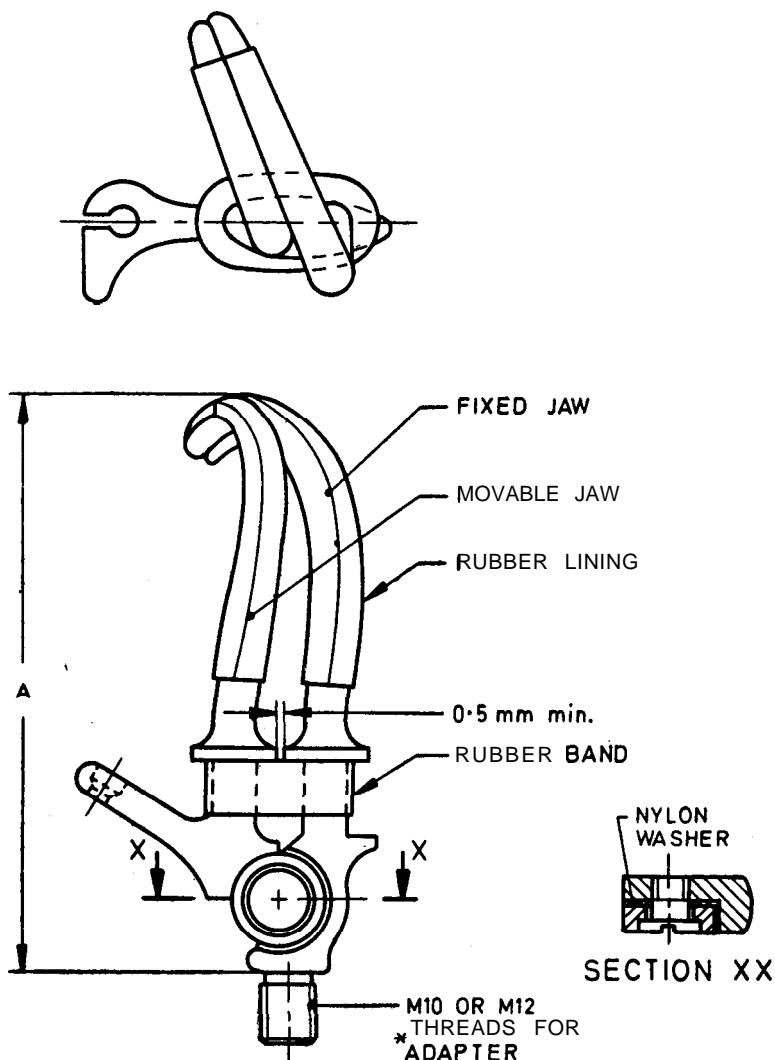
Indian Standard



**SPECIFICATION FOR
HOOK VOLUNTARY OPENING TERMINAL
DEVICE FOR ARTIFICIAL LIMBS**

1. Scope — Covers the general requirements of hook voluntary opening terminal device for upper extremity prosthetic fittings.

2. Shape and Dimensions — The general shape and dimensions of hook are indicated in Fig. 1. The shape and dimensions are given for guidance only.



*See IS : 4534-1980 Adapter for terminal devices, artificial limbs (first revision).

Size	A
Child	95
Lady	110
Adult	125

All dimensions in millimetres.

FIG. 1 HOOK VOLUNTARY OPENING TERMINAL DEVICE

3. Materials -The hook shall be manufactured from any of the following materials:

- a) Stainless steel conforming to designation Grade 3 of IS : 3444-1978 'Specification for corrosion resistant alloy steel and nickel based castings for general applications (*first revision*)'.
- b) Brass conforming to designation Grade 3 of IS : 292-1961 ' Specification for brass ingots and castings (*revised*)'.

4. Construction

4.1 The movable jaw of the hook shall be capable of opening up to at least 90".

4.2 The working jaw of the hook shall either be provided with cross serrations or alternatively with soft PVC rubber lining.

4.3 The movable jaw of the hook shall have suitable provision for attaching the distal end of a control cable mechanism.

5. Workmanship and Finish

5.1 The hook shall be free from sharp edges, corners and any other surface imperfections.

5.2 In case of serrated hook, the serrations, shall be reasonably cleaned and sharp to facilitate proper grip.

5.3 In case of lined hook the lining shall be smooth and soft enough to facilitate appropriate gripping.

5.4 The movement of the movable jaw shall be smooth and shall have no side to side play.

5.5 The jaws of the hook shall match accurately and register properly to the length as specified in Fig. 1 to facilitate good grip.

5.6 The overall construction of the hook may be one piece or a welded composite design.

5.7 Stainless steel hooks shall be passivated and polished bright.

5.8 Mild steel hooks shall be plated chromium over nickel. The plating shall conform to service Grade 2 of IS : 1068-1968 'Specification for electroplated coatings of nickel and chromium on iron and steel.'

5.9 Brass hooks shall be plated chromium over nickel and the plating shall conform to service Grade 2 of IS : 4827-1968 ' Specification for electroplated coatings of nickel and chromium on copper and copper alloys.'

6. Load Test

6.1 A force of 500 N shall be applied at the distal end of the hook as shown in Fig 2. The hook shall not be deformed or take a permanent set under the force when applied gradually,

7. **Marking** — The package containing hooks shall be marked with the following:

- a) Manufacturer's name, initials or recognized trade-mark; and
- b) With the word 'right' or 'left'.

8. **ISI Certification Marking** — Details available with the Indian Standards Institution.

9. **Packing** -As agreed to between the purchaser and the supplier.

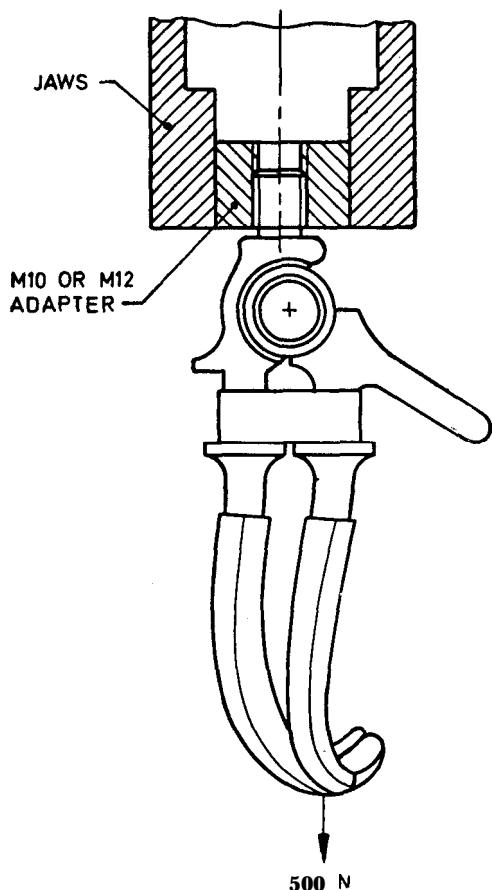


FIG. 2 LOAD TESTING ARRANGEMENT FOR HOOK